

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A superconducting cable comprising:  
a former made of a normal-conducting metal;  
a first superconducting layer formed around the outer circumference of said former and in electrical communication with the former;  
an electric insulating layer formed around the outer circumference of said first superconducting layer;  
a second superconducting layer formed around the outer circumference of said electric insulating layer; and  
a normal-conducting metal layer formed between said electric insulating layer and said second superconducting layer;  
wherein said first and second superconducting layers are in a state cooled by a refrigerant.
2. (Cancelled).
3. (Previously Presented) The superconducting cable according to claim 1, wherein said normal-conducting metal layer is formed by winding round wires with a round cross section or tape-shaped wires formed from a normal-conducting metal.
4. (Currently Amended) The superconducting cable according to claim 3, ~~wherein said wires include~~ further comprising a wire insulating layers around their outer circumferences.
5. – 7. (Cancelled).
8. (Original) The superconducting cable according to claim ~~7~~1, wherein said superconducting wires have a matrix ratio within a range between 1.5 or more and 3.0 or less.
9. – 10. (Cancelled).